

DATASHEET RENEGITE

1. Identification of the substance

- 1.1 Trademark :- RENEGITE
1.2 Description :- Sulphamic Acid (solid)
1.3 Distributed by :- Bravilor Bonamat B.V. Pascalstraat 20
NL-1704 RD Heerhugowaard (The Netherlands)
- Tel. +31 (0)72 5751751
- Fax. +31 (0)72 5751758

2. Composition / information on ingredients

- 2.1 Description :- Sulphamic Acid (~100%) (Syn.: Aminosulfinic Acid)
2.2 Formula :- H_2NSO_3H
2.3 MM :- 97.09 g/mol
2.4 CAS. No. :- 5329-14-6
2.5 EEC. No. :- 016-026-00-0
2.6 Einecs No. :- 226-218-8

3. Hazards identification

- 3.1 Health hazards :- Irritating to the eyes and skin
3.2 Ecology :- Harmful to aquatic organisms
- May cause long-term adverse effects in the aquatic environment
3.3 Fire hazard :- Non combustible

4. First aid measures

- 4.1 After skin contact :- Wash off with plenty of water / shower
- Remove contaminated clothing
- Do not remove clothing in case this sticks to the skin
- Cover wounds in a sterile way
4.2 After contact with the eyes :- Rinse out with plenty of water with the eyelids held wide open
- Summon the help of a ophthalmologist
- Do not use a chemical neutralising agent
4.3 After inhalation :- Let the victim breathe fresh air
4.4 After swallowing :- Rinse the mouth with plenty of water
- Make the victim drink plenty of water
- Try to prevent vomiting of the victim
- Do not give a chemical antidote
- Summon medical help immediately
- Ingestion of large quantities: transport to hospital immediately
- Show the package / vomit to the doctor / in the hospital

5. Fire-fighting measures

- 5.1 Suitable extinguishing media :- In adaptation to materials stored in the immediate neighbourhood
5.2 Special risks :- Development of hazardous combustion gases or vapours is possible
in the event of fire
5.3 Special protecting clothing :- Do not stay in the danger zone without suitable chemical protection
clothing and self contained breathing apparatus
5.4 Other information :- Contain escaping vapours with water
- Prevent fire-fighting water from entering surface water or groundwater

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6. Accidental release measures

- 6.1 Person related precautions : - Avoid generation of dust
- Do not inhale dust
- Avoid substance contact
- 6.2 Procedures for cleaning / absorption : - Take up dry
- Forward for disposal
- Clean up affected area with plenty of water
- Clean the clothing and material used afterward
- 6.3 Environment : - Prevent the substance from entering in the environment

7. Handling and storage

- 7.1 Handling : - No additional requirements
- 7.2 Storage : - Store in a dry place
- Store in tightly closed container
- Storage temperature at +15° C to 25° C
- The data on storage temperature applies to the entire pack
- 7.3 Keep away from : - Heat sources
- oxidising agents
- (strong) bases
- easy combustible materials
- metals
- halogens

8. Personal Protection / exposure protection

- 8.1 Personal protective equipment:
Respiratory protection : - Required when dusts are generated
Eye protection : - Required
Hand protection : - Required
Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substance handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.
- 8.2 Industrial hygiene : - Change contaminated clothing
- Application of skin-protective barrier cream is recommended
- Wash hands after working with the substance

9. Physical and chemical properties

- Form : - Solid
Colour : - White
Odour : - Odourless
Melting temperature : - 205°C (decomposition)
Boiling temperature : - Not available
Density : - 2130 kg/m³
Bulk density : - ~600 kg/m³
Solubility in water : - 213 g/l (at 20° C)
- 470 g/l (at 80° C)
pH : - 1.18 (1 g/100 ml_{water} at 25° C)
Thermal decomposition : - 209 ° C

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10 Stability and reactivity

- 10.1 Conditions to be avoided : - Strong heating
- 10.2 Substances to be avoided : - Halogens
- Alkalis
- Oxidising agents (i.e. Nitrates, Nitrites, Nitric acids)
- Metals with water
- 10.3 Hazardous decomposition products : - In the event of fire: Ammonia, Nitrous gases, Sulphur oxides

11. Toxicological information

- 11.1 Acute Toxicity : - LD50 (oral rat): 3160 mg/kg
- 11.2 Specific symptoms with animal tests : - Eye irritation test: strong irritant effect
- Skin irritation test: strong irritant effect
- 11.3 Further toxicological information : - After inhalation of dust: irritation in the respiratory tract, coughing, dyspnoea
- After skin contact: irritant effect
- After eye contact: strong irritant effect
- After swallowing: irritation of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract
- 11.4 Over sensitiveness : - No sensitising effect
- 11.5 Further information : - The product should be handled with the care usual when dealing with chemicals

12. Ecological information

- 12.1 Ecotoxic effects : - Quantitative data on the ecological effects of this product are not available
- 12.2 Biological effects : - Harmful effect on aquatic organisms
- Harmful effect due to pH-shift
- 12.3 Further ecological data : - May cause long-term adverse effects in aquatic environments
- Do not allow to enter waters, waste water or soil
- When handled and used competently no ecological problems are to be expected

13. Disposal considerations

- 13.1 Product : - There are no uniform EC-regulations for the disposal of chemicals or residues. Chemical residues in general count as special waste, the disposal of which is regulated in the EC member states through harmonised laws and regulations. We recommend that the authorities in charge or an approved disposal company is contacted to advice on how to dispose of this special waste.
- 13.2 Packaging : - Handle contaminated packaging in the same way as the substance itself
- Disposal in compliance with the official regulations
- If not specified differently, non contaminated packaging may be treated like household waste or re-cycled

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14. Transport information

- 14.1 Transport over land ADR/RID and GGVS/GGVE (Germany)
- | | | | |
|------------------|-----------------------|-------------------|---------|
| VS/GGVE class | : - 8 | Number and letter | : - 16c |
| GG ADR/RID class | : - 8 | Number and letter | : - 16c |
| Marking | :- 2967 Sulfaminsäure | | |
- 14.2 Transport by inland vessel ADN/ADNR
No data available
- 14.3 Transport over sea IMDG/GGVS (sea)
- | | | | |
|---------------------------|--------------------|-----------------|----------|
| IMDG/GGVS - class | : - 8 | UN - number | : - 2967 |
| EMS | : - 8-08 | MFAG | : - 700 |
| Correct technical marking | : - SULPHAMIC ACID | Packaging group | : - III |
- 14.4 Transport by air ICAO-TI en IATA-DGR
- | | | | |
|------------------------|--------------------|------------------|----------|
| ICAO/IATA - class | : - 8 | UN- / ID- number | : - 2967 |
| Correct technical name | : - SULPHAMIC ACID | Packaging group | : - III |
- 14.5 The transport regulations are cited according to international regulations and in the form applicable in Germany (GGVS/GGVE). Possible national deviations in other countries are not considered.

15. Regulatory information

- 15.1 Hazard symbol : - **Xi** - **Irritating**
- 15.2 R-phrases : - 36/38 - Irritating to eyes and skin
- 52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- 15.3 S-phrases : - (2) - (Keep out of reach of children)
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- 28 - After contact with the skin, wash immediately with plenty of water
- 61 - Avoid release to the environment. Refer to special instructions/ safety data sheets
- 15.4 NOTE :
- 15.5 EEC LIST :- EC no. 226-218-8 (EC label)
- 15.6 German regulations
Water pollution class :- 1 (slightly polluting substance) (own classification)

16. Additional information

- Date of issue : - 06 March 2002
- The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product. The receiver and the users of the product are responsible for a proper use in conformity with the existing legislation and regulations.